

CONTRACT BIDDING DOCUMENTS

FOR

TOWN OF WEST HARTFORD
TRAFFIC SIGNAL REPLACEMENT

BID # 6200F



INFORMATION

TOWN OF WEST HARTFORD
TRAFFIC SIGNAL REPLACEMENT
BID# 6200F

PROJECT MANAGER

DUANE MARTIN
PROFESSIONAL ENGINEER

ALL QUESTIONS TO

PURCHASING SERVICES
TAMMY BRADLEY
SENIOR BUYER

All questions must be submitted in writing and mailed to the Purchasing Office, emailed to TammyB@westhartford.org, or faxed to (860) 561-7492 at least seven calendar days prior to the date established for the opening of bids. Do not call the Engineer/Architect, Project Manager or Purchasing Office with questions.

1.03 TABLE OF CONTENTS

I.00 INTRODUCTORY INFORMATION

- I.01 Title Page
- I.02 Project Team
- I.03 Table of Contents
- I.04 List of Drawings
- I.05 Project Narrative

2.00 INFORMATION FOR BIDDERS

- 2.01 Invitation to Bid
- 2.02 Instructions to Bidders
- 2.03 Bid Forms

3.00 LABOR REQUIREMENTS

- 3.01 Prevailing Wage Rates

4.00 CONTRACT

- 4.01 Sample Contract

5.00 GENERAL CONDITIONS

- 5.01 Town of West Hartford Rules & Specifications, etc.
- 5.02 Payments
- 5.03 State of Connecticut Standard Specifications
- 5.04 Utilities
- 5.05 Obligations of Contractor
- 5.06 Duties and Responsibilities of the Engineer
- 5.07 Assignment
- 5.08 Liability - Indemnity
- 5.09 Blasting Requirements
- 5.10 Avoidance of Abandonment
- 5.11 Delay of Work by Town and Work by Others
- 5.12 Defective Work
- 5.13 Time
- 5.14 Damages to be Paid Town; and Extension of Time
- 5.15 Quantities
- 5.16 Prices
- 5.17 Alterations and Additional Work
- 5.18 Additional Payments
- 5.19 Partial Estimates and Payments
- 5.20 Final Estimate
- 5.21 Withholding Payment
- 5.22 Waiver
- 5.23 Connecticut Occupational Safety and Health Act
- 5.24 Provisions Required by Law Deemed Inserted
- 5.25 Termination or Suspension of the Contract

6.00 GENERAL SPECIFICATIONS

- 6.01 Handling and Distribution
- 6.02 Materials - Samples - Inspection - Approval
- 6.03 Shop and Working Drawings
- 6.04 Occupying Private Land
- 6.05 Interference With and Protection of Streets
- 6.06 Storage of Materials and Equipment
- 6.07 Insufficiency of Safety Precautions
- 6.08 Traffic Control
- 6.09 Sanitary Regulations
- 6.10 Lines, Grades and Measurements
- 6.11 Work to Conform
- 6.12 Computation of Quantities
- 6.13 Planning and Progress Schedules
- 6.14 Precautions Against Adverse Weather
- 6.15 Definitions
- 6.16 Abbreviations

7.00 TECHNICAL SPECIFICATIONS

NOTE: This index has been prepared for the convenience of those using this contract with the sole, express purpose of locating quickly the information contained herein, and no claims shall arise due to omissions, additions, deletions, etc., as this index shall not be considered part of this contract.

<u>Page No.</u>	<u>Item No.</u>	<u>Description</u>
1	N/A	General Information
	N/A	Notice to Contractor – System Integration
1	N/A	Notice To Contractor – Modification of Existing Traffic Signal Controller
1	N/A	Notice To Contractor – Traffic Signals
2	N/A	Notice To Contractor – Existing Utilities
3	N/A	Notice To Contractor – Traffic Drums and Traffic Cones
4	N/A	Notice To Contractor – Verification of Plan Dimensions and
Field		Measurements
5	N/A	Control of Work
5	N/A	Control of Materials

<u>Page No.</u>	<u>Item No.</u>	<u>Description</u>
7	N/A	Legal Relations and Responsibility to Public
8	N/A	Prosecution and Progress
10	1	Maintenance and Protection of Traffic
21	7	8' Aluminum Pedestal
21	8	15' Aluminum Pedestal
22	9	Mast Arm Assembly, 30-2W
22	10	Mast Arm Assembly, 45-2W
28	11	1 Way, 3 Section Mast Arm Traffic Signal
28	12	1 Way, 4 Section Pole Mounted Traffic Signal
28	13	1 Way, 5 Section Mast Arm Traffic Signal
29	14	1 Way, Pedestrian Signal Pedestal Mounted
30	15	Accessible Pedestrian Push Button Station
31	16	Modify Existing Controller
32	17	System Integration
33	18	Closed Loop Master Unit (CLMU)
34	19	Camera Extension Bracket
34	20	Camera Assembly
34	21	Video Detection Processor
35	22	Spread Spectrum Radio Assembly
36	28	Removal and/or Relocation of Traffic Signal Equipment
37	29	Temporary Signalization
40	30	Removal and Relocation of Existing Signs
41	32	Installation of South Main Street Radio Cabling and Removal and Disposal of Interconnect and Messenger Cabling
42	33	Installation of Accessible Pedestrian Push Button Stations
43	34	Traffic Signal Modification to Provide an Accessible Pedestrian Signal
44	35	Installation of Farmington Avenue at Mountain Road Video Detection Equipment

8.00 EXHIBITS

8.01 Exhibit A - Insurance

8.02 Exhibit B - Traffic Control

1.04 LIST OF DRAWINGS

ASYLUM @ STEELE	#WH - 1
NEW PARK @ PROSPECT	#WH - 24
FARMINGTON @ MAIN	#WH - 29
SOUTH MAIN @ BOULEVARD	#WH - 48
SOUTH MAIN @ ELLSWORTH	#WH – 50
SOUTH MAIN @ MEMORIAL	#WH – 52
SOUTH MAIN @ PEDESTRIAN CROSSING	# WH - 59

1.05 PROJECT NARRATIVE

Traffic Signal Replacement at New Park Avenue at Prospect Avenue and Modifications at Various Locations

General Information

The Town of West Hartford is seeking bids for the replacement of the New Park Avenue at Prospect Avenue traffic signal as well as traffic signal modifications at several intersections throughout the Town.

This is a Town-funded project. The Town reserves the right to modify the scope of work based upon funding limits. This work shall be completed prior to December 31, 2011.

At the intersection of New Park Avenue at Prospect Avenue, the Town of West Hartford, Department of Public Works completed the installation of most of the conduit and all of the handholes, pedestal foundations, and controller foundations. We are seeking a contractor to install the mast arm foundations, mast arm assemblies, traffic signals, pedestals, pedestrian signals, radio equipment, and cabling. The Town of West Hartford will provide a PEEK 3000E traffic signal controller and malfunction management unit (MMU), but the contractor shall furnish and install the master controller, cabinet, and configure the controller and MMU per the traffic signal plan. This traffic signal will also include accessible pedestrian features, particularly pedestrian push buttons stations with audible messages, locator tones, and vibrotactile arrows.

The Town of West Hartford plans to mill and pave New Park Avenue and part of Prospect Avenue in July 2011. After the completion of the paving, the Town will provide pavement markings and applicable signage to facilitate the Prospect Avenue lane modifications.

The other intersections involved in the project include the following:

<u>Location</u>	<u>Type of Work</u>
New Park Avenue between Flatbush Avenue and Prospect Avenue	Remove interconnect cabling
Prospect Avenue between New Park Avenue and Caya Avenue	Remove interconnect cabling
Farmington Avenue at Main Street	Retrofit Signal to become an Accessible Pedestrian Signal
Asylum Avenue at Steele Road	Retrofit Signal to provide an exclusive pedestrian phase and become an Accessible Pedestrian Signal
Farmington Avenue at Mountain Road	Replace loop detection on two approaches with video detection
New Park Avenue at Talcott Road	Install controller firmware
New Park Avenue at Oakwood Avenue	Install controller firmware
New Park Avenue at West Hartford Place	Install controller firmware
New Park Avenue at Flatbush Avenue	Install controller firmware
Flatbush Avenue at Oakwood Avenue	Install controller firmware
Quaker Lane South at Talcott Road	Install controller firmware
Quaker Lane South at Flatbush Avenue	Install controller firmware
Prospect Avenue at Caya Avenue	Install radio equipment

South Main Street between Boulevard and the Pedestrian Crossing	Remove interconnect cabling
South Main Street at Boulevard	Install radio equipment
South Main Street at Ellsworth Road	Install radio equipment
South Main Street at Memorial Road	Install radio equipment
South Main Street at Pedestrian Crossing	Install radio equipment

Two-way traffic shall be maintained at all times. The Contractor shall use West Hartford Police private duty personnel for traffic control as necessary and if available. If West Hartford Police Department personnel are not available, private qualified traffic control personnel shall be provided. All construction signage and traffic controls shall conform to current Connecticut Department of Transportation work zone traffic control requirements.

Safe pedestrian access shall be provided at all times. Access and egress to and from all properties shall be maintained for both vehicles and pedestrians at all times. Access to all businesses shall remain open and signed.

The Contractor is responsible for providing all no parking signage and cones. Advanced coordination with the Town of West Hartford is required for work, which requires the use of metered parking spaces.

2.00 INFORMATION FOR BIDDERS

2.01 Invitation to Bid

2.02 Instructions to Bidders

2.03 Bid Forms

2.01 INVITATION TO BID

- 2.01.01 Sealed bids marked **"TRAFFIC SIGNAL REPLACEMENT" Bid# 6200F** will be received at the office of the Division of Purchasing Services, Room 223, Town Hall, 50 South Main Street, West Hartford, Connecticut until **2:30 PM** on **June 9, 2011** at which time they will be publicly opened and read.

Drawings and Specifications for review will be available in the Purchasing Office, Room 223, Town Hall, 50 South Main Street, West Hartford, Connecticut, 06107. Bid Forms, Drawings, and Specifications may be obtained at this location for a non-refundable deposit of **\$ 25.00**. Make deposit check payable to the Town of West Hartford. The Town does not mail drawings and specifications. The Contractor may arrange for delivery of the drawings and specifications by a third party at the Contractor's expense. Any questions concerning this request for bid shall be addressed to the Purchasing Agent at the address below.

- 2.01.02 Site Conditions: At the date fixed for opening of Bid #6200F, each bidder will have made an examination of any locations and sites; has satisfied himself as to actual conditions, requirements and quantities of work; and has read and become thoroughly familiar with the bid. Request for Information (RFI's) may be emailed to Tammy Bradley, at tammyb@westhartford.org no later than close of business **May 26, 2011**.
- 2.01.03 All bidders must file with their bid, a Certified Check, Treasurer's Check or Bid Bond made payable to the Town of West Hartford in the amount of 10% of the total base bid price.
- 2.01.04 Performance, Labor and Materials Payment Bonds in the amount of the contract price shall be required of the successful bidder, if the contract pursuant to this request for bids exceeds \$50,000.00.
- 2.01.05 No bid may be withdrawn for a period of 90 days after the opening of bids without the approval and written consent of the Town of West Hartford.
- 2.01.06 The right is reserved to reject any and all bids, to waive any informalities in the bidding and to make awards in any manner that is the most beneficial to the Town. Deviation from the "Contract Bidding Documents" may render such bids voidable at the Town's sole option.
- 2.01.07 The work described herein shall be completed as required. Unless otherwise stated, time is of the essence.
- 2.01.08 Substantial completion must be achieved by **December 1, 2011** and final completion must be achieved by **December 31, 2011**. The Contractor shall pay the Owner liquidated damages in the amount of Fifty Dollars (\$50.00) per calendar day, which sum is hereby agreed upon, and shall be assessed not as

a penalty, but as liquidated damages which the Owner shall suffer by reason of such default. The Owner and Contractor shall acknowledge that failure to effect substantial completion as noted above will precipitate inconvenience and disruption. The Owner and Contractor shall acknowledge that such damages are uncertain or difficult to prove and that the amounts established herein are reasonable assessment of these damages.

2.01.09 All prospective bidders are hereby notified that in order to obtain a permit to blast within West Hartford, they must present evidence of adequate insurance protection by filing a properly executed copy of the attached Public Liability Endorsement with the West Hartford Fire Department.

2.01.10 Overtime Engineering Inspection Fees - N/A
The charge payable to the Town by the Contractor for engineering and inspection services performed by Town personnel on holidays and when Town employees are required to work in excess of 37.5 hours per week as a result of the Contractor's work schedule will be:
Between 37.5 and 40 hours - the then actual hourly rate of the inspector.
Over 40 hours - 1.5 times the then actual hourly rate of the inspector.
Holidays - 1.5 times the then actual hourly rate of the inspector.
Reference Information for Bidders Section 2.02.24.

2.01.11 Refuse Disposal Fees
The Town of West Hartford's transfer station shall only accept yard waste for an established fee. All construction waste and demolition materials shall be transported and legally disposed of at the Connecticut Resource Recovery Authority or other legal site selected by the contractor.

2.01.12 Disposal of Excavated Material
The Contractor shall not dispose of his excavated material on private or public property in West Hartford without the permission of the Director of Community Services.

BID RESULTS

Bidders are encouraged to attend the Town's bid opening at which time the public is afforded an opportunity to record bid prices received in response to the Town's solicitation. Bidders who would like the results of the bid but are unable to attend the bid opening, may check the Town website, <http://west-hartford.com/TownServices/TownDepartments/FinancialServices/BidResults.htm> a week after the bid opening date. Bidders calling the Purchasing Office for bid results will be referred to the above procedure.